

to be limited to the details shown; since various modifications and structural changes may be made without departing in any way from the present invention.

Without further analysis, the foregoing will so fully reveal the gist of the present invention that others can, by applying current knowledge, readily adapt it for various applications without omitting features that, from the standpoint of prior art fairly constitute essential characteristics of the generic or specific aspects of this invention. 5

What is claimed as new and desired to be protected by Letters Patent is set forth in the appended claims:

1. A compact [smoking] oven, comprising a [box-shaped] housing having a peripheral wall comprising of two wall portions spaced from one another and including an inner wall portion provided with a plurality of throughgoing openings and an outer wall portion; and at least one heating means for heating food products; a food product supporting means; and means for holding a food product supporting means; and tray means located below said food product supporting means so as to collect fat; [a container for accommodating wooden chips and having at least one wall provided with a plurality of openings; means for heating said container so that when said container is heated, wooden chips inside said container are heated to produce a smoke; said smoke enters a space between said inner wall portion and said outer wall portion of said peripheral wall and exits said space through said openings of said inner wall portion into an interior of said inner wall portion of said peripheral wall; means for holding a food product to be smoked by said smoke; and means for cooling said housing, said housing having an upper compartment separated from an interior of said housing by an upper wall, said cooling means being located in said upper compartment and directing cool air toward said upper wall so as to cool said upper wall.] 10 15 20 25

15. A compact oven as defined in claim 1, and a container for accommodating wooden chips and having at least one wall provided with a plurality of opening; means for heating said container so that when said container is heated, wooden chips inside said container are heated to produce a smoke, said smoke enters a space between said inner wall portion and said outer wall portion of said peripheral wall and exits said space through said opening of said inner wall portion into an interior of said inner wall portion of said peripheral wall; 30

2. A compact [smoking] oven as defined in claim 1, wherein said heating means include a heater located underneath said container with wooden chips so as to heat a bottom of said container and thereby to heat the wooden chips.

3. A compact [smoking] oven as defined in claim 2, wherein said heater is formed as an electric heater. 5

4. A compact [smoking] oven as defined in claim 1; and further comprising a food product supporting means; and tray means has bottom inclined toward the door of said oven, which located above said container and below said food product supporting means so as to collect fat and deflect smoke exiting said openings of said container toward said peripheral wall. 10

16. A compact oven as defined in claim 1; and means for cooling said housing, said housing having [an upper] a control panel compartment separated from an interior of said housing by [an upper wall] a wall; said cooling means being located in said [upper] control panel compartment and directing cool air toward said [upper wall] control panel so as to cool said [upper wall] compartment and control panel. 15

5. A compact [smoking] oven, as defined in claim 1; [comprising a box-shaped housing having a peripheral wall composed of two wall portions spaced from one another and including an inner wall portion provided with a plurality of thoroughgoing openings and an outer wall portion; a container for accommodating wooden chips and having at least one wall provided with a plurality of opening; means for heating said container so that when said container is heated, wooden chips inside container are heated to produce a smoke, said smoke enter a space between said inner wall portion and said outer wall portion of said peripheral wall and exits said space through said openings of said inner wall portion into an interior of said inner wall portion of said peripheral wall;] and food product supporting means including at least two discs has a plurality of thoroughgoing openings rotatable about a horizontal axis and a plurality of rods extending substantially horizontally and inserted in openings of said discs, and at least one disc displaceable in axial direction for removal of the food product; and one end of said food product supporting means inserting into a slot with a hole or a hole of said support rotatable about horizontal axis, while the other end of said food product supporting means inserting into a slot with a hole or a slot of other support; and the food product 20 25 30

supporting means displaceable in an axial or in an up direction for removal of the food product supporting means.

6. A compact [smoking] oven as defined in claim 5, wherein one of said disc has a plurality of throughgoing openings for inserting one end of said rods, while the other of said disc has a plurality of closeable and openable slots, or a plurality of the slots and throughgoing openings, for inserting the other end of said rods. 5

7. A compact [smoking] oven as defined in claim 5, wherein said rods are additionally turnable about their axis; and further comprising means for additionally turning said rods about said axes.

8. A compact [smoking] oven, as defined in claim 7, wherein said means for turning said rods about their axes including at least one flywheel connected with each rod and formed so that when said discs rotate and rotate all said rods, each of said rods is rotated about its axis in an opposite direction under the action of said flywheel tending to assume a substantially vertical position. 10

9. A compact [smoking] oven, as defined in claim 1; [comprising a box-shaped housing having a peripheral wall composed of two wall portion spaced from one another and including an inner wall portion provided with a plurality of throughgoing openings; a container for accommodating wooden chips and having at least one wall provided with a plurality of opening and an outer wall portion; means for heating said container so that when said container is heated, wooden chips inside said container are heated to produce a smoke, said smoke enters a space between said inner wall portion and said outer wall portion of said peripheral wall and exits said space through said openings of said inner wall portion into an interior of said inner wall portion of said peripheral wall; means for holding a food product to be smoked by said smoke;] an openable hollow door which closes and opens the interior of said housing; and cooling means for cooling air and supplying it into an interior of said hollow door so as to cool said door and to increase tightness of an interior of said housing, between said door and housing so as to prevent smoke escape from said housing. 15 20 25

10. A compact [smoking] oven, as defined in claim 1; [comprising a box-shaped housing having a peripheral wall composed of two wall portion spaced from one another and 30

including an inner wall portion- provided with a plurality of throughgoing openings; a container for accommodating wooden chips and having at least one wall provided with a plurality of opening and an outer wall portion; means for heating said container so that when said container is heated, wooden chips inside said container are heated to produce a smoke, said smoke enters a space between said inner wall portion and said outer wall portion of said peripheral wall and exits said space through said openings of said inner wall portion into an interior of said inner wall portion of said peripheral wall; means for holding a food product to be smoked by said smoke;] and food product supporting means located in said housing and including at least one support provided with at least two rotatable discs having different axes of rotation and at least one 10 rotatable disc having a plurality of hooks for suspending the food product.

11. A compact [smoking] oven, as defined in claim 1; [comprising a box-shaped housing having a peripheral wall composed of two wall portion spaced from one another and including an inner wall portion provided with a plurality of throughgoing openings; a container for accommodating wooden chips and having at least one wall provided with a plurality of opening and an outer wall portion; means for heating said container so that when said container is heated, wooden chips inside said container are heated to produce a smoke, said smoke enters a space between said inner wall portion and said outer wall portion of said peripheral wall and exits said space through said openings of said inner wall portion into an interior of said inner wall portion of said peripheral wall; means for holding a food product to be smoked by said smoke;] and said heating means including a gas heater; a metal plate heater by said gas heater and located above said gas heater [and underneath said container] and a flame distributor located between said gas heater and metal plate and having a plurality of perforations so as to distribute and direct gas flame to said metal plate in a distributed fashion. 20 25

12. A compact [smoking] oven, as defined in claim 1; [comprising a box-shaped housing having a peripheral wall composed of two wall portion spaced from one another and including an inner wall portion provided with a plurality of throughgoing openings; a container for accommodating wooden chips and having at least one wall provided with]

[a plurality of opening and an outer wall portion; means for heating said container so that when said container is heated, wooden chips inside said container are heated to produce a smoke, said smoke enters a space between said inner wall portion and said outer wall portion of said peripheral wall and exits said space through said openings of said inner wall portion into an interior of said inner wall portion of said peripheral wall; means for holding a food product to be smoked by said smoke;] and food product supporting means including at least one rod rotatable about a horizontal axis and having a support displaceable in an axial direction for removal of the food product; and one end of said food product supporting means inserting into a slot with a hole or a hole of said support 5
rotatable about a horizontal axis, while the other end of said food product supporting
means inserting into a slot with a hole or a slot of other support; and food product
supporting means displaceable in an axial or in an up direction for removal of the food
product supporting means. 10

13. A compact [smoking] oven, as defined in claim 1; [comprising a box-shaped housing having a peripheral wall composed of two wall portion spaced from one another and including an inner wall portion provided with a plurality of throughgoing openings; a container for accommodating wooden chips and having at least one wall provided with a plurality of opening and an outer wall portion; means for heating said container so that when said container is heated, wooden chips inside said container are heated to produce a smoke, said smoke enters a space between said inner wall portion and said outer wall portion of said peripheral wall and exits said space through said openings of said inner wall portion into an interior of said inner wall portion of said peripheral wall; means for holding a food product to be smoked by said smoke;] and food product supporting means including a grate composed of at least two portions movable between a position in which said grates are located close to one another so as to enclose a food product therebetween, and an open position in which said grate portions are moved, two discs rotatable about a horizontal axis with [on] at least one of said disc[s] displaceable in an axial direction for removal of the grate; and a turnable at least one rod located between said rotatable discs and supporting said grate; and one end of said food
product supporting means inserting into a slot with a hole or a hole of said rotatable 20
25
30

about horizontal axis, while the other end of said food product supporting means inserting into a slot with a hole or a slot of other support; and food product supporting means displaceable in an axial or in an up direction for removal of the food product supporting means.

14. A compact [smoking] oven, as defined in claim 1; [comprising a box-shaped housing having a peripheral wall composed of two wall portion spaced from one another and including an inner wall portion provided with a plurality of throughgoing openings; a container for accommodating wooden chips and having at least one wall provided with a plurality of opening and an outer wall portion; means for heating said container so that when said container is heated, wooden chips inside said container are heated to produce a smoke; said smoke enters a space between said inner wall portion and said outer wall portion of said peripheral wall and exits said space through said openings of said inner wall portion into an interior of said inner wall portion of said peripheral wall; means for holding a food product to be smoked by said smoke;] a door adapted to close and to open said housing; and food product supporting means and tray means for fat collection connected with said door so that when said door opens, said food product supporting means and tray means are located outside of said housing for loading and unloading said food product supporting means.

17. A compact oven, as defined in claim 1; a food product supporting means including a grate composed of at least two portions movable between a position in which said grates are located close to one another so as to enclose a food product therebetween, and an open position in which said grate portions are moved, [two discs rotatable about a horizontal axis with on said discs displaceable in an axial direction;] and at least one a turnable about a horizontal axis rod, located between [said rotatable discs] portions a grate and supporting said grate; and one end of said food product supporting means inserting into slot with hole or hole support rotatable about a horizontal axis, while the other end of said food product supporting means inserting into slot with hole or slot of the other support; and food

product supporting means displaceable in an axial or in an up direction for removal of the food product supporting means.

18. A compact oven, comprising a housing having a peripheral and inner walls; at least one heating means for heating a food product; and food product supporting means including a grate composed of at least two portions movable between a position in which said grates are located close to one another so as to enclose a food product therebetween, and an open position in which said grate portions are moved; [two discs rotatable about a horizontal axis with on said discs displaceable in an axial direction] and at least one turnable rod located between [said rotatable discs] said portions a grate and supporting said grate; and one end of said food product supporting means inserting into a slot with a hole or a hole of said support rotatable about a horizontal axis, while the other end of said food product supporting means inserting into a slot with a hole or a slot other support; and food product supporting means displaceable in an axial or in an up direction for removal of the food product supporting means; and tray means located below said rotatable food product supporting means so as to collect fat.

5

10

15

19. A compact oven, comprising a housing having a peripheral and inner walls; at least one heating means for heating a food product; and food product supporting means including at least one rod rotatable about a horizontal axis and having a support displaceable in an axial direction for removal of the food product; and one end of said food product supporting means inserting into a slot with a hole or a hole support rotatable about a horizontal axis, while the other end of said food product supporting means inserting into a slot with a hole or a slot of said support; and food product supporting means displaceable in an axial or in an up direction for removal of the food product supporting means; and tray means located below said rotatable food product supporting means so as to collect fat.

20

25

20. A compact oven, comprising a housing having a peripheral and inner walls; at least one heating means for heating a food product; and food product supporting

means including at least two discs has a plurality of throughgoing openings
rotatable about a horizontal axis and a plurality of rods extending substantially
horizontally and inserted in openings of said discs, and at least one disc displaceable
in axial direction for removal of the food product; and one end of said food product
supporting means inserting into a slot with a hole or a hole of said support rotatable
about a horizontal axis, while the other end of said food product supporting means
inserting into a slot with a hole or a slot of other support; and the food product
supporting means displaceable in an axial or in an up direction for removal of the
food product supporting means; and tray means located below said rotatable food
product supporting means so as to collect fat. 10

21. A compact oven, comprising a housing having a peripheral and inner walls;
at least one heating means for heating a food product; and food product supporting
means including at least two discs rotatable about a horizontal axis and at least one
of said disc has a plurality of throughgoing openings for inserting one end of said
rods, while the other of said disc has a plurality of closeable and openable slots, or
a plurality slots and throughgoing openings, for inserting the other end of said rods;
and one end of said food product supporting means inserting into a slot with a hole
or a hole of said support rotatable about a horizontal axis, while the other end of said
food product supporting means inserting into a slot with a hole or a slot of other
support; and the food product supporting means displaceable in an axial or in an up
direction for removal of the food product supporting means; and tray means located
below said rotatable food product supporting means so as to collect fat. 20

22. A compact oven, comprising a housing having a peripheral and inner walls;
at least one heating means for heating a food product; and food product supporting
means including a grate composed of at least two portions movable between a
position in which said grates are located close to one another so as to enclose a food
product therebetween, and an open position in which said grate portions are moved,
two discs rotatable about a horizontal axis with on of said discs; and at least one
turnable rod located between said rotatable discs and supporting said grate; and at
least one disc displaceable in an axial direction for removal of the grate; and one end 30

of said food product supporting means inserting into a slot with a hole or a hole of
said support rotatable about a horizontal axis, while the other end of said food
product supporting means inserting into a slot with a hole or a slot of other support;
and the food product supporting means displaceable in an axial or in an up direction
for removal of the food product supporting means; and tray means located below said
rotatable food product supporting means so as to collect fat. 5

23. A compact oven, comprising a housing having a peripheral and inner walls;
at least one heating means for heating a food product; and food product supporting
means located in said housing and including at least one support provided with at
least[two rotatable discs having different axes of rotation and] one rotatable disc
with a plurality of hooks for suspending the food product; and tray means located
below said rotatable food product supporting means so as to collect fat. 10

24. A compact oven, comprising a housing having a peripheral and inner walls;
at least one heating means for heating a food product; and further comprising a
food product supporting means; a device for turning and holding a food product
supporting means; a tray for fat collection; and a door adapted to close and to open
said housing ; and food product supporting means and a tray for fat collection
connected with said door so that when said door opens, said food product supporting
means and a tray for fat collection are located outside of said housing for loading and
unloading said food product supporting means. 15 20

25. A compact oven, comprising a housing having a peripheral and inner walls;
at least one heating means for heating a food product; and further comprising a food
product supporting means; a device for turning and holding a food product supporting
means; and tray for fat collection has bottom inclined toward the door the oven, which
located below said food product supporting means so also to collect fat. 25

and 15 20

ellfar mikhail Zaydman 12. 16. 1998.